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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/914,467	04/02/2002	Irene Jennrich	R.35957	5302	
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GREIGG & GREIGG P.L.L.C. 1423 POWHATAN STREET, UNIT ONE			NGUYEN, TUYEN T		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
	. * * .	e.c	2832		
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Comment C				- WW				
Examiner TUYEN T NGUYEN 2832		Application No.	Applicant(s)					
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- The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of the may be available under the provisions of \$7 CER 1.13(a). In no event, however, may a reply be simely fled If the period for reply sepdied above is less than thiny (30) days, and provide in the standary minimum of fieling (30) days will be considered timely. If the period for reply sepdied above is less than thiny (30) days, and provide in the standary minimum of fieling (30) days will be considered timely. If the period for reply sepdied above is less than thiny (30) days, and provide in the standary minimum of fieling (30) days will be considered timely. If the period for reply sepdied above is less than thiny (30) days, and provide the standary minimum of fieling (30) days will be considered timely. If the period for reply sepdied above is less than thiny (30) days, and provide the standary minimum of fieling (30) days will be considered timely. If the period for reply sepdied standary sepdied (30) days, and provided (30) days will be considered timely. If the period construction is constructed to reply will, by standar, and set application to the advanced timely set of the standary set of the minimum set of the standary set of	Office Action Summary	Examiner	Art Unit					
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If NO period for regly is specified above, the maximum statutory period will apply and will apply	A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFR 1.1							
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 8-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies on the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 14) Notice of Informal Patent Application (PTO-152)	 If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 	will apply and will expire SIX (6) MONTH cause the application to become ABAN	S from the mailing date of this com DONED (35 U.S.C. § 133).	nmunication.				
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Application/Control Number: 09/914,467

Art Unit: 2832

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8-11 and 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Linkner et al. [WO 97/33287] in view of Maruno et al. [JP 55-145308].

Linkner et al. discloses a magnet coil for use in a solenoid valve [figures 2-3] comprising:

- a pot core [50] including two encompassing chamfers [figure 3];
- a winding structure [47] includes a winding [31] formed of insulated solenoid magnet wire and rigidly bonded together with an adhesive;
 - coating layers [35, 36] that cause the winding structure to hold together;
 - at least one tubular plastic part [43, 44] mounted on the pot core; and
 - a foam washer [55] located on and covering the winding structure.

Linkner et al. discloses the instant claimed invention except for the specific structure of the winding wire.

Maruno et al. discloses a molded coil structure including insulated wires having conductors applied with heat resistant baked enamel.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the baked enamel conductor wires of Maruno et al. in the winding structure of Linkner et al. for the purpose of facilitating manufacture.

Regarding claim 14, the specific use of the magnet coil in the fuel pump environment would have been an obvious design consideration for the purpose of preventing moisture.

Claims 12 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Onoda et al. [JP 01-131332] in view of Maruno et al.

Onoda et al. discloses a magnet coil structure [figure 2] and method comprising:

- providing a ring shape core [5];
- providing a coil [14] formed of self-welding electric wires disposed in the ring shape core;
- inserting the coil into the ring shape core; and
- providing insulating potting material [16] in the ring shape core.

Onoda et al. discloses the instant claimed invention except for the coil formed of enamel baked wire and a coating layer.

Maruno et al. discloses a molded coil structure including insulated wires having conductors applied with heat resistant baked enamel and a coating structure [17].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the enamel baked wires/conductors and the coating structure of Maruno et al.'s coil structure for the coil of Onoda et al. for the purpose of providing a resin mold coil.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T NGUYEN whose telephone number is 703-308-0821. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 703-308-7619. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TTN MN

Tayen T. Nguyen